

ANKER PILLAR SYSTEMS INSTALATION GUIDE

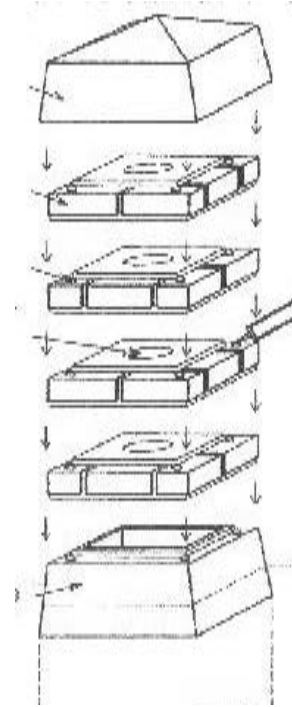
The performance of Anker Pillar Systems will be dependent upon the engineered design and construction of the sub grade. All structural and non structural Anker Pillar Systems foundations shall be engineered to withstand existing soil densities and applied loads. Structural application require engineered concrete pile footings. Non structural applications include Anker Pillar Systems footing components and granular fill which is subject to engineered density report.

Use the "Concrete Crack Filler" caulking provided by Anker Pillar Systems only for sealing the joints. The recommended adhesive for gluing the layers together is PL Premium (**not included**). All electrical work is to be done by a certified electrician. Anker Pillar Components should be transported, handled and constructed in accordance with the specifications

Note: Anker Pillar Systems assumes no liability over site conditions or construction methodology. Liability is limited to the quality and integrity of Anker Pillar Systems components.

TOOLS REQUIRED

Shovel, Wheelbarrow, Level, Rubber Mallet, Caulking Gun, Dry Brush,



The Anker Pillar consists of three components. The concrete cap, brick/stone layers and concrete base are all interlocking and are simply stacked on one another starting with the concrete base. The base is set on a concrete pile footing conforming to local building codes. Each Component is bonded together with a construction adhesive (not included). Once stacked it is caulked with a "Concrete Crack Filler" to seal out any water and give the pillar a finished look. Load bearing pillars hollow centre core is filled with concrete in site.

Legend

1. Pre-cast Concrete Cap
2. Interlocking Brick Layers
3. Dab PL Premium for non load bearing pillars.
4. Hollow Centre Core
5. Finished Grade
6. Pre-cast Concrete Footing
7. Concrete Pile Footing as Per Local Building Codes



BASE PREPARATION (STRUCTURAL APPLICATION)

Step 1

After marking the location for the pillar installation, excavate a hole to approximately 1.2-m (4-ft). The top portion of the hole should be squared off to fit the dimension of the bottom of the pre-cast pillar base unit. Fill the hole with concrete to grade level, set the base in wet concrete and level carefully using a rubber mallet. Insert rebar into the wet concrete.

Step 2

If an electrical option has been chosen, the underground electrical source should be pulled up through the inside of the concrete base and connected to the electrical box prior to filling the base with concrete.

Step 3

Backfill around the concrete pile footing and the concrete base. Compact the backfilled soil and create a positive slope away from the concrete base.



STACKING THE BRICK / STONE LAYERS AND CONCRETE CAP

Step 1

Place the 1st layer component directly on top of the concrete base. Prior to this procedure, apply a generous amount of retaining wall adhesive (PL Premium recommended - not included) to the top of the concrete base at each corner. Repeat this gluing procedure between each layer.

Note: If the pillar is load bearing and the core of the pillar is going to be filled with concrete, it is not necessary to glue each layer.



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Anker Pillar Systems are quick and easy to install. Once the pre-cast base is set on a poured footing, you simply stack the individual masonry units on top of one another.

STACKING THE BRICK / STONE LAYERS AND CONCRETE CAP (cont.)

Step 2

While continuing to stack the layers to the desired height, repeat the gluing procedure previously mentioned and check each layer for level and vertical alignment. This is achieved with a level and a rubber mallet, if the layer is not level, use the shims provided to make level. Ensure the vertical mortar joints of each layer are staggered from one another.

Note: For a structural application, fill the hollow centre core of the pillar with an engineer designed concrete mix and reinforcements prior to placing the concrete cap on top.

Step 3

Upon placing the final layer and applying the PI Premium to the top of it, place the concrete cap on top.

Step 4

If an electrical option has been chosen, an electrical wire, originating from the concrete base electrical outlet, should be pulled up through the inside of the layers and concrete cap during the stacking procedure. Provide excess electrical wire at both the concrete base outlet and the concrete cap light to ensure proper electrical connection.



As you proceed, retaining wall adhesive is applied to the top of each unit with a caulking gun. Once the desired number of units have been stacked to reach the specified height, a concrete cap is placed on top to complete the pillar installation.



CAULKING AND SEALING

Step 1

Once all components have been stacked to form a complete pillar, each horizontal mortar joint between the components is filled with a thin bead of, "Concrete Crack Filler" (included). Wipe caulked joints smooth with a trowel or your finger and feather lightly with a brush. Any excess spills can be cleaned with a damp sponge.

Tip: Cut the tube of Concrete Crack Filler on an angle and do not cut the hole too big.

Step 2

After an elapsed time period of 24 hours, brush the finished pillar thoroughly with a masonry brush to remove any dirt or debris.

As shown in the photograph, the small joints between the individual masonry units are caulked with a "Concrete Crack Filler" compound that is designed for this purpose.

BASE PREPARATION (NON STRUCTURAL APPLICATION)

Step 1

In an excavated area, place and level the concrete floating pad on an engineered compacted granular sub grade. The minimum size of the granular sub grade should be 6" (150 mm) deep and extend 8" beyond all sides of the concrete footing pad.

Step 2

Place the concrete base on top of the floating concrete pad, wooden shims can be used to level the base if needed. Prior to this procedure, glue the base to the pad, by applying a generous amount of construction adhesive.

Step 3

If an electrical option has been chosen, the underground electrical source should be pulled up through the centre of the concrete footing pad and connected to the electrical outlet box located in the concrete base.

Step 4

Backfill around the concrete pile footing and the concrete base. Compact the backfilled soil and create a positive slope away from the concrete base.



The last important step to create an attractive pillar is to lightly brush the joints to blend the filler compound.

This project involved the installation of 2 pillars that matched the 1 interlocking concrete pavers used in the driveway. The pillars incorporated light fixtures and a 110V power outlet installed in their base and took 2 installers less than 60 minutes to complete.



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